

Name: _____ (Honor Code)

Date: _____ Bell: _____

Study Guide—Unit 2 Part II

Graphs, Tables, Rules & Inequalities

VOCABULARY—Multiple Choice: Use the diagram to answer questions 1-4.

1.) Which is the best name for **A** in the diagram?

- a. x-axis
- b. y-axis
- c. Point
- d. Origin

2.) Which is the best name for **B** in the diagram?

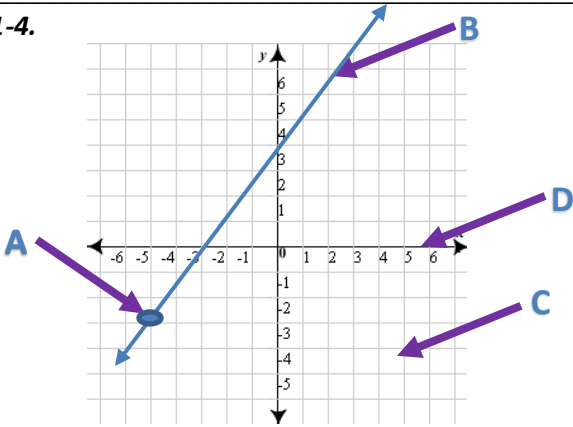
- a. x-axis
- b. y-axis
- c. Line
- d. Graph

3.) Which quadrant is **C** pointing to?

- a. I
- b. II
- c. III
- d. IV

4.) Which is the best name for **D** in the diagram?

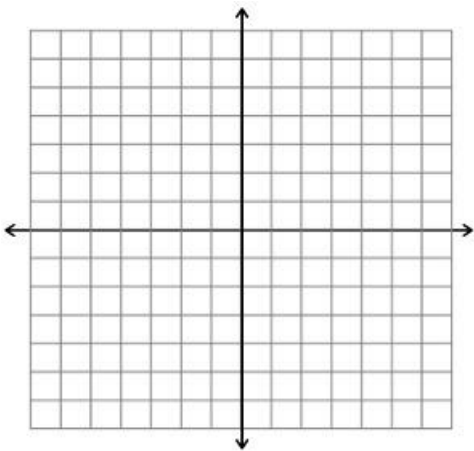
- a. x-axis
- b. y-axis
- c. Origin
- d. Graph



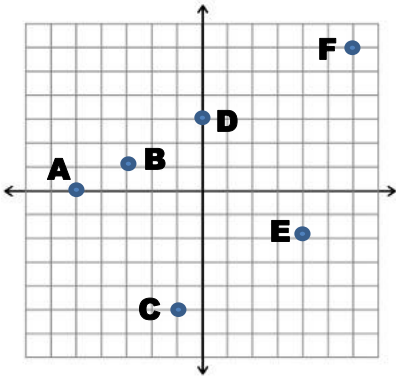
GRAPHING

5.) Graph the linear function.

$$y = -\frac{3}{4}x + 2$$



6.) Identify the points on the graph by making a table to represent the ordered pairs.



	<i>x</i>	<i>y</i>
A		
B		
C		
D		
E		
F		

MULTIPLE CHOICE

_____7.) Which table matches the function $y = x - 6$?

A

x	y
-4	-10
-2	-4
0	2

B

x	y
-4	-12
-2	-6
0	4

C

x	y
-4	-10
-2	-8
0	-6

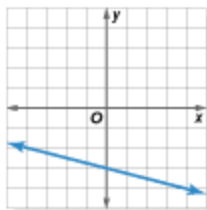
D

x	y
-4	10
-2	4
0	2

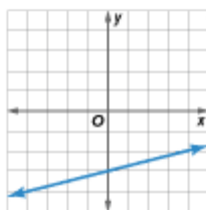
_____8.) Which graph matches the table?

x	y
-8	-1
-4	-2
0	-3
4	-4
8	-5

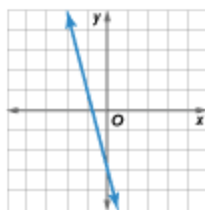
A



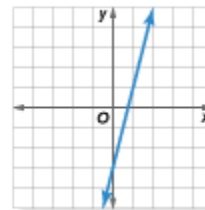
B



C

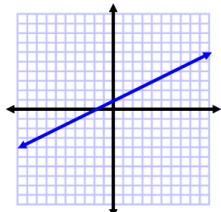


D

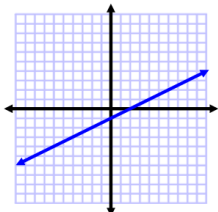


_____9.) Which graph matches the function $y = 2x + 1$?

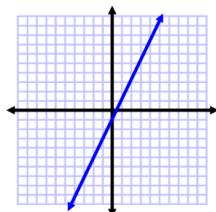
A



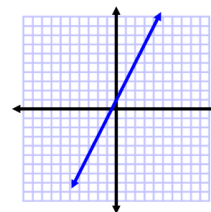
B



C



D



_____10.) Which equation passes through the points $(-1, 3)$, $(0, 1)$, and $(1, -1)$?

A $y = \frac{1}{2}x + 1$

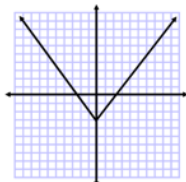
B $y = -2x + 1$

C $y = x + 1$

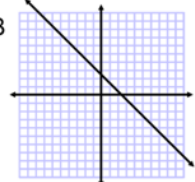
D $y = 2x + 1$

_____11.) Which graph is NOT a function?

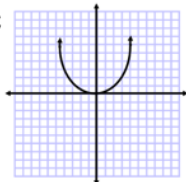
A



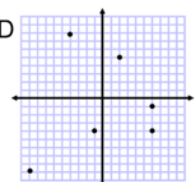
B



C



D



_____12.) Which is the range of the function?

$\{(-1, 1), (0, 1), (1, 1), (2, 1)\}$

A $\{-1, 0, 1, 2\}$

B $\{1\}$

C $\{-1, 1, 0, 1, 2\}$

D $\{(-1, 1), (0, 1), (1, 1), (2, 1)\}$

_____13.) Which point passes through the line $y = \frac{1}{4}x - 2$?

A $(-8, 4)$

B $(-4, 3)$

C $(0, 2)$

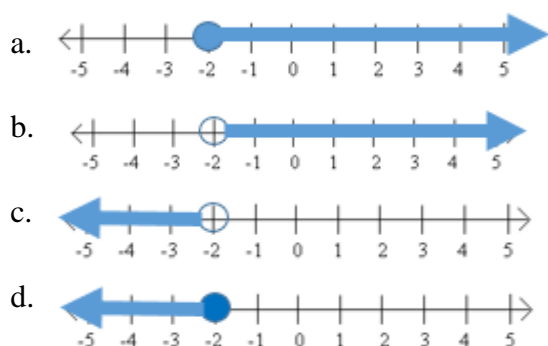
D $(4, -1)$

14.) Place a checkmark in all the boxes which are **NOT** inequalities below.

<input type="checkbox"/> $1 = 1$	<input type="checkbox"/> 16	<input type="checkbox"/> $\frac{y}{2} - 8$
<input type="checkbox"/> $14 > -1$	<input type="checkbox"/> $x = -7$	<input type="checkbox"/> $x < 19$

15.) (Multiple Choice) Which graph matches the inequality?

$$-2 < m$$



16.) Circle all the numbers which would satisfy the inequality below.

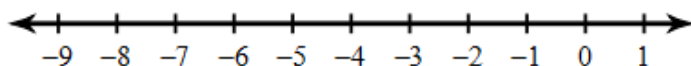
$$\frac{x}{3} > -4$$

-18	0	-3
45	6	-21

17.) Solve the inequality and graph the solution on the number line below. Write your answer in the box.

$$18 + k > 11$$

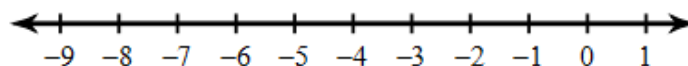
k



18.) Solve the inequality and graph the solution on the number line below. Write your answer in the box.

$$-6 \geq x - 5$$

x



19.) Complete the solution set for the inequality by selecting **one** symbol and **one** number from the choices shown below. Write the symbol in the box and the number in the blank.

$$\frac{y}{-2} > -8$$

y

$>$

$<$

-4

4

-16

16

20.) Complete the solution set for the inequality by selecting **one** symbol and **one** number from the choices shown below. Write the symbol in the box and the number in the blank.

$$9 + 3y \geq -12$$

y

\geq

\leq

-1

1

-7

7